

Appl. No. 10/731,333
Docket No. 9133M
Amdt. dated November 2, 2006
Reply to Office Action mailed on August 2, 2006
Customer No. 27752

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method for inhibiting scale, film and/or spot formation on a surface treated with an aqueous solution containing calcium and/or magnesium ions, the method comprising contacting the surface with a wash medium comprising the aqueous solution and a composition containing a functionalized material, wherein the functionalized material is derived from non-ethylenic based or vinyl based polymers or oligomers, said functionalized material being selected from the group consisting of ~~celluloses, starches, carboxymethyl-cellulose polymers, cellulose ether polymers, other modified cellulose polymers,~~ lignins, polyvinylalcohols, polyaspartates, ~~modified starch, modified saccharides, gums,~~ and mixtures thereof, wherein said functionalized material comprises both sulfonate moieties and carboxylate moieties and the functionalized material satisfies Test Protocol I.

2 - 3. (Cancelled)

4. (previously presented) The method according to Claim 1 wherein the functionalized material has a molar ratio of sulfonate moieties to carboxylate moieties ranging from about 1:30 to about 30:1.

5. (previously presented) The method according to Claim 4 wherein the functionalized material has a molar ratio of sulfonate moieties to carboxylate moieties ranging from about 1:10 to about 10:1.

6. (previously presented) The method according to Claim 1 wherein the functionalized material further comprises a nonionic functional moiety selected from the group consisting of alkoxy moieties, alkyl moieties, ester moieties and mixtures thereof.

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7. (previously presented) The method according to Claim 6 wherein the functionalized material has a molar ratio of sum of sulfonate and carboxylate moieties to nonionic moieties ranging from about 1:20 to about 20:1.

8. (Cancelled)

9. (Currently Amended) A composition for inhibiting scale, film and/or spot formation on a surface treated with an aqueous solution containing calcium and/or magnesium ions, the composition comprising:

- a) a functionalized material produced by a process comprising functionalizing with both carboxylate and sulfonate moieties a non-ethylenic based material or a vinyl based material selected from the group consisting of ~~celluloses, starches, carboxymethyl cellulose polymers, cellulose ether polymers, other modified cellulose polymers,~~ lignins, polyvinylalcohols, polyaspartates, ~~modified starch, modified saccharides, gums,~~ and mixtures thereof such that the functionalized material satisfies the Test Protocol I;
- b) a builder; and
- c) one or more adjunct ingredients.

10 - 11. (Cancelled)

12. (previously presented) The composition according to Claim 9 wherein the functionalized material has a molar ratio of sulfonate moieties to carboxylate moieties ranging from about 1:30 to about 30:1.

13. (previously presented) The composition according to Claim 12 wherein the functionalized material has a molar ratio of sulfonate moieties to carboxylate moieties ranging from about 1:10 to about 10:1.

14. (previously presented) The composition according to Claim 12 wherein the functionalized material further comprises a nonionic functional moiety selected from the group consisting of alkoxy moieties, alkyl moieties, ester moieties and mixtures thereof.

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15. (previously presented) The composition according to Claim 14 wherein the functionalized material has a molar ratio of sum of sulfonate and carboxylate moieties to nonionic moieties ranging from about 1:20 to about 20:1.

16. (Cancelled)

17. (Original) The composition according to Claim 9 wherein the composition is an automatic dishwashing composition or a fabric care composition.

18. (previously presented) The composition according to Claim 9 wherein the adjunct ingredient comprises an ingredient selected from the group consisting of: builders, enzymes, bleaches, anti-foaming agents, alkalinity agents, and mixtures thereof.

19. (Cancelled)